



Image may differ from product. See technical specification for details.

QJ 307 MA

Four-point contact ball bearing

Four-point contact ball bearings can accommodate high axial loads in both directions and small radial loads. They can operate at very high speeds and are more suitable than deep groove ball bearings for supporting large axial forces. The outer ring, with ball and cage assembly, can be mounted separately from the two inner ring halves.

- High-speed capability
- Accommodate high axial loads in both directions and small radial loads
- Require considerably less axial space than double row angular contact ball bearings

Overview

Dimensions

Bore diameter	35 mm
Outside diameter	80 mm
Width	21 mm
Contact angle	35 °

Performance

Basic dynamic load rating	64 kN
Basic static load rating	51 kN
Limiting speed	15 000 r/min
SKF performance class	SKF Explorer

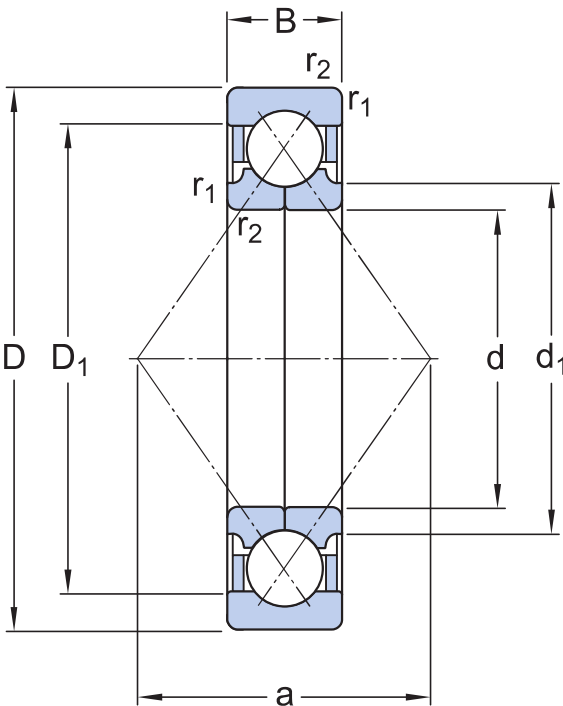
Properties

Contact type	Four-point contact
Number of rows	1
Locating feature, bearing outer ring	None
Ring type	Two-piece inner ring and one-piece outer ring
Cage	Machined metal
Matched arrangement	No
Universal matching bearing	No
Axial internal clearance	CN
Material, bearing	Bearing steel
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without

Logistics

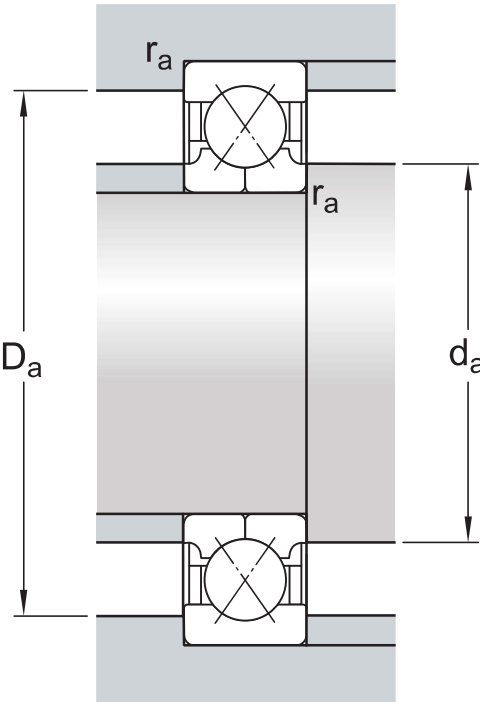
Product net weight	0.555 kg
eClass code	23-05-08-05
UNSPSC code	31171538

Technical specification



Dimensions

d	35 mm	Bore diameter
D	80 mm	Outside diameter
B	21 mm	Width
d ₁	≈ 46.2 mm	Shoulder diameter inner ring
D ₁	≈ 64.3 mm	Shoulder diameter outer ring/ inner diameter housing washer
a	40 mm	Distance pressure point(s)
r _{1,2}	min. 1.5 mm	Chamfer dimension inner ring



Abutment dimensions

d_a	min. 44 mm	Abutment diameter shaft
D_a	max. 71 mm	Abutment diameter housing
r_a	max. 1.5 mm	Fillet radius

Calculation data

SKF performance class		SKF Explorer
Basic dynamic load rating	C	64 kN
Basic static load rating	C_0	51 kN
Fatigue load limit	P_u	2.16 kN
Limiting speed		15 000 r/min
Calculation factor	A	0.00744
Limiting value	e	0.95
Calculation factor	X	0.6
Calculation factor	Y_0	0.58
Calculation factor	Y_1	0.66
Calculation factor	Y_2	1.07

Tolerances and clearances

GENERAL BEARING SPECIFICATIONS

- Tolerances: [Normal, P6](#)
- Internal clearance: [table](#)

BEARING INTERFACES

- [Seat tolerances for standard conditions](#)
- [Tolerances and resultant fit](#)

More Information

 Product details Designs and variants General bearing specifications Loads Temperature limits Permissible speed Design considerations Designation system	 Engineering information General bearing knowledge Bearing selection process Bearing interfaces Seat tolerances for standard conditions Selecting internal clearance or preload Lubrication External sealing, mounting and dismounting Bearing failure and how to prevent it	 Tools SKF Product select SimPro Quick Bearing Frequency Calculator LubeSelect for SKF greases Heater selection tool SKF mounting and dismounting instructions
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